

OXYGEN CONCENTRATOR
MOC-C

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MANUAL BOOK



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PREFACE

Dear User :

Thank you for your support ! Hope you can become our memorable user.

This manual describes notices, operation steps, basic functions, technical parameters, basic troubleshooting, return repair instructions and other contents, so that you will be familiar with the product and operate it properly

To ensure the effective use of this machine, please carefully read the instructions for use in this manual. Before you operate the machine, please make sure that you have read and understand the basic operation of this product, Please pay special attention to "IMPORTANT PROTECTION"

Please note that some of the illustrations in this manual do not look exactly like the tools you see

Humidifier bottles, oxygen cylinders/oxygen masks, filters and other random parts mentioned in this manual must be selected according to the product specification requirements.

If you have some problems in use, feel free to contact the After Sales of the manufacturer.

Version : V0

IMPORTANT PROTECTION



DANGER (In case of Violation of normal operations, serious injury or death may result.)

Gauge to reduce the risk of burns, electric shock, fire or human injury. Avoid using the product while bathing. If needed, please follow the doctor's instructions, and the oxygen device must be used in another room which is 2.5 meters outside the bathroom. It is recommended that nasal oxygen cylinders be less than 11 meters and kept clean.

- ❖ Do not place or store in a place where it can easily fall into water or other liquids.
- ❖ Oxygen causes rapid burning. Do not use within 5 feet (1.6 m) of heat, igniting objects or open sources of ignition.
- ❖ Do not smoke while your oxygen concentrator is operating. or when you are near someone who is on oxygen therapy.
- ❖ Improper use of the power line and plug, may cause a fire or other dangerous electric shock, burns, do not use the machine with a broken power line.
- ❖ Before cleaning the unit dust on the casing, must unplug the power plug to prevent electric shock.
- ❖ When the machine is running, please do not open the machine casing and internal box to prevent damage caused by mechanical touch.



WARNING (The following matters must be strictly enforced, otherwise it may cause serious consequences.)

- ❖ To prevent oxygen failure or power outage, always provide oxygen (such as urgent need of oxygen and severe patients) need oxygen supply devices also configure other backups (Such as oxygen bottles, oxygen bags, etc.)
- ❖ This product cannot be used to sustain any kind of life. It is recommended that patients who require oxygen therapy should follow the doctor's instructions when selecting this machine for the regulation of oxygen flow and inhalation time.

- ❖ If discomfort or abnormal reaction occurs, please stop using this product immediately, and contact the manufacturer or a doctor.
- ❖ Seriously ill patients require additional configuration equipment in the use of the product, or require additional medical coordination. Please consult a doctor before use. If you have an adverse reaction, please consult a doctor immediately.
- ❖ All products if used at altitudes over 2000 meters, the maximum recommended flow in rated oxygen concentrators, output purity will be less than 90%.
- ❖ Do not let many people use the same set of nasal oxygen tube or oxygen mask, so as to avoid cross-infection caused by viruses or bacteria between users.
- ❖ We must use a humidifier bottle according to the specifications required. Do not replace it arbitrarily, otherwise it may cause discomfort or danger when inhaling oxygen.
- ❖ The nasal oxygen cylinder must not be placed under a converter or pillow when using the unit, and cannot be seated on a compressed oxygen connecting tube to ensure successful use and efficiency.
- ❖ When no one is using, it is recommended to turn off the power switch, and turn off the plug to avoid burning.
- ❖ Use of this product, pay attention to whether the power line is too long to block other roads, it is recommended to use near a power socket.
- ❖ This product can not be equipped with non-specified humidifier bottles or dosing accessories, so as not to affect the performance of the product



CAUTION (Pay attention to the following contents to avoid machine damage)

- ❖ Do not open the machine shell and internal box to perform maintenance. If the user encounters some problems, or encounters an abnormal alarm, do not carry out repairs, should immediately contact the distributor or manufacturer.

- ❖ The product must be placed in a clean and free of dust, corrosive and toxic environment. Do not use this product in an environment with a strong magnetic field.
- ❖ The air inlet of the machine should be placed in a well-ventilated place and the inlet of the air source should be in a place with little pollutant (including / pollutant refers to: combustion gas, exhaust system, air vent and other anesthetic vacuum exhaust holes, etc.)
- ❖ Please connect to a separate AC outlet (Wall Mounted) when using this product, do not connect to a lined socket. Do not use with other electrical equipment at the same time using the power supply socket.
- ❖ This machine is strictly prohibited contact with oil and grease, such as the need to connect to other pipes, valves, connectors, the use of this product, the connection set before installation must be cleaned to ensure clean and no oil (grease) category . In the connection process, pay attention to keep all parts cleaning, the connection of the whole machine is strictly forbidden to touch flammable oily liquid.
- ❖ To ensure efficient exhaust flow at the bottom when using the engine. The back is not against the wall, at least 30 cm from the wall, otherwise it will cause engine damage due to overheating.
- ❖ Machine should not be opened and closed frequently, shut down just before starting, the time interval is not less than 5 minutes, so as not to affect the service life of the compressor, the manufacturer recommends each operation is better for 30 minutes.
- ❖ This machine is for medical oxygen supply only. Purity will reach up to 90% or higher when at rated output stream.
- ❖ The rotary flow control knob cannot be forced too hard, or it is easy to damage the spool. When the flow control knob is turned on highest, but the **flow** indicator is zero, turn off the power and then check for faults.
- ❖ When receiving the product for operation and test, cut the ties at the bottom of the machine otherwise it will cause damage to the machine.



NOTICE (You should pay special attention to the following information.)

- ❖ Purity will reach 90% or more than 90% after 10 minutes running time.
 - ❖ Nasal oxygen tube and oxygen mask need to be cleaned, sterilized if the user wants to reuse.
-
- ❖ Oxygen machine parts, humidifier bottles need to be cleaned every 2 to 3 days and air intake filter foam needs to be cleaned every 100 hours. It is recommended to replace the air filter after 1000 hours of machine use. Such as the use of the product in a dusty or soot environment that is larger, the above parts, please reduce the cleaning or replacement time. In order to ensure the effectiveness of use, early replacement of parts is proposed.
 - ❖ Use of water can be used as a humidified bottle must be distilled water or cold water, do not put directly into tap water that is not treated. Water bottle should be cleaned every 2~3 days in summer, recommended daily replacement, if used after a few days without this product, please put all the water drained, moistened bottle, dry, standby.
 - ❖ Choose a nasal oxygen tube and oxygen mask of the same specification as the one equipped. If replacing a different one, check with the professional or the manufacturer first.
 - ❖ Do not throw humidifier bottles, nasal oxygen tubes, and masks anywhere. The nearest waste disposal mechanism is the best option.
 - ❖ Please choose a suitable humidifier bottle, rotate it and install it on the machine as needed. Do not use under rotating situation. (See humidified bottle connection indicator diagram).
 - ❖ When using the humidifier bottle, pay attention to add water at the highest and lowest water levels marked on the body of the bottle.
 - ❖ When this machine is disposed of, please contact your local distributor or manufacturer.
 - ❖ Please refer to DESCRIPTION OF USE OF RELATED SYMBOLS to understand machine, package symbol.
 - ❖ Please refer to "CHECK PACKAGING AND PACKING LIST" to test the equipped components after receiving the goods and before use and then operate it like "PRODUCT OPERATION PROCEDURE".

DESCRIPTION OF USE OF ASSOCIATED SYMBOLS

OFF	Off (Total Power Supply)	ON	On (Total Power Supply)
	Follow the <u>intructions</u>		No Open flame
	No Smoking		<u>Produating</u> date
	Safeguard		<u>Serise</u> Number
	Cautions		Up Put
	Double insulated		Avoid the rain Keep dry
	Type BF applied part		Fragile handle with care
220V ~	AC 220V		Forbidden
	Non-ionizing electromagnetic radiation		
	Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE Directive) after the expiry of its validity period of 3 years, the machine must be treated according to local law or regulatory requirements. To avoid user interference and polluting the environment.		



CHECK PACKAGING AND PACKAGING LIST

When you receive the product, please unpack it carefully. This product is equipped with an upper and lower foam protective cover, in order to protect the product from damage, please check immediately whether the product is damaged or not. Then, check if there are missing parts or accessories in checking the product packing list.

Packing List			
Number	Product /Component Name	Quantity	Unit
1	Oxygen Concentrator	1	Piece
2	Humidification Bottle	1	Piece
3	Nasal Oxygen Tube	1	Piece
4	User Manual	1	Piece
5	Atomization Accessories Package(selectable)	1	Piece

PRODUCT OPERATING PROCEDURE

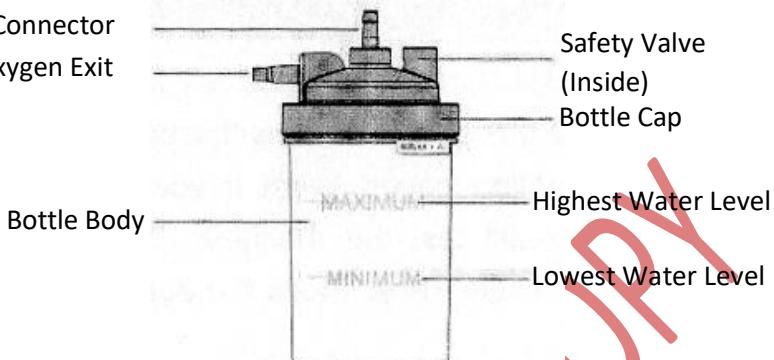
1. The ties at the bottom of the machine must be cut before use. The back of the Concentrator should be at least 30CM away from the wall, and

located in a well-ventilated space without sundries at the bottom to maintain smooth air ventilation and regular heat dissipation.

2. Connect the equipped humidifier bottle and process as below.

Intake Air Connector

Oxygen Exit



(Figure 1)

- a. Pour distilled water into the bottle according to the specified level. Put on the bottle cap. (see Figure 1).



Attach the moisturizer bottle tightly, please take it off when not using

(Figure 2)

- b. Attach the humidifier bottle to the oxygen outlet by turning it counterclockwise. Since the humidifier bottle is hanging, make sure it is securely attached to the outlet port (see Figure 2).



Notice: The best installation place as picture 2

3. Disconnect the AC power cord from the retention strip, making sure the switch is in the off position. Insert the plug into the indoor wall outlet.

4. Medical oxygen concentrator with equipment for monitoring purity. When the engine is running, the instruction lamp will flash three times. A few minutes later, the yellow low oxygen purity alarm lamp will flash, and the normal light will be on.
5. Flow adjustment is optional, turn the knob anticlockwise can increase the flow and vice versa.
6. Connect the inlet oxygen cylinder to the humidifier bottle outlet, and cross the oxygen cylinder to the user's ear, then oxygen is ready to be taken through the nostrils. (Like Figure 3).



(Figure 3)

7. When the machine is running, if the alarm sounds, please check whether the power connection is normal or the external power supply is cut off.
8. When the oxygen is finished using, turn off the power switch. Immediately clean the oxygen inhalation tube or oxygen mask. If not used frequently, please tidy up the power plug, AC power line and put the machine in place.

PRODUCTION INTRODUCTION

Oxygen concentrator refers to the oxygen concentrator used in homes, hospitals or patient care centers to provide low flow oxygen therapy. Our small medical oxygen concentrator product adopts the principle of pressure swing adsorption, pressure and air pressure, after the molecular sieve of nitrogen and oxygen molecules in the air separation, oxygen retention, nitrogen release. When the power is turned on at room temperature, the oxygen in the air can be separated from the air to meet medical standards.

STRUCTURE

This product consists of machine body, flowmeter, humidifier bottle, nasal oxygen tube or oxygen mask.

SCOPE OF APPLICATION

This equipment is especially suitable for the preparation of medical oxygen.

CONTRIDICATION

Non

ENVIRONMENTAL REQUIREMENTS

1. Ambient Temperature : 5 °C – 40 °C ;
2. Relative Humidity : ≤ 80 % ;
3. Atmospheric Pressure: 86 kPa – 106 kPa;
4. There is no corrosive gas and strong magnetic field in the surrounding environment

TRANSPORT AND STORAGE CONDITIONS

1. Ambient Temperature Range : - 20 °C – 55 °C ;
2. Relative Humidity Range : ≤ 93 % ; no Condensation phenomenon ;
3. Atmospheric Pressure Range: 50 kPa – 106 kPa.



Notice: When the storage temperature is below 5°C, the machine should be placed under normal temperature environment for more than four hours before using it.

ADDITIONAL REMARKS

Classification of protection against electric shock: Class II

Classification according to the degree of protection against electric shock:

Class BF

Classification according to the degree of liquid protection into the machine:

IPXO device;

According to the level of safety classification used in flammable anesthetic mixtures with air or oxygen or nitrous oxide mixtures case: when not using flammable gases and air mixed with oxygen or nitrous oxide or anesthetic mixtures under equipment conditions;

classification according to mode of operation: Continuous operation;

There is no signal output and signal input part;

Usage Voltage: 220VAC, 50Hz;

Working: Working continuously;

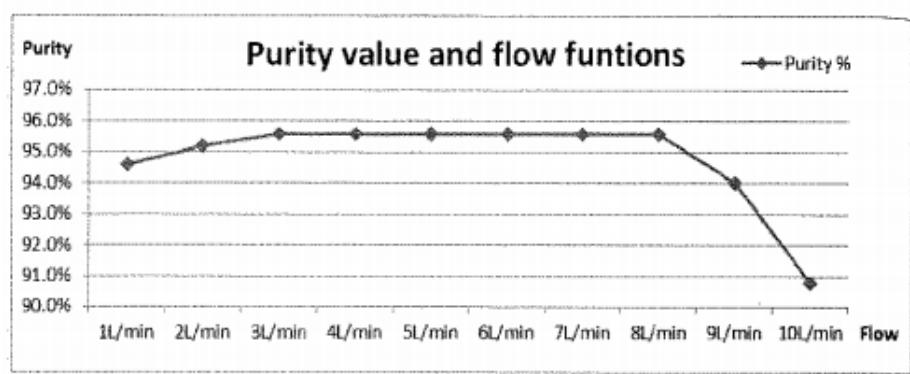
With the application of the free oxygen release portion of the protective effect of defibrillation;

Oxygen Concentrator is for non-permanent installation equipment.

* Altitude: 0 meters to 2000 meters, oxygen purity ≥90%, 2001 meters to 4000 meters, ≤90%

PURITY VALUE AND FLOW FUNTIONS CHART

Output pressure = 0, Graph of flow function purity and value (Figure 4)



(Figure 4)

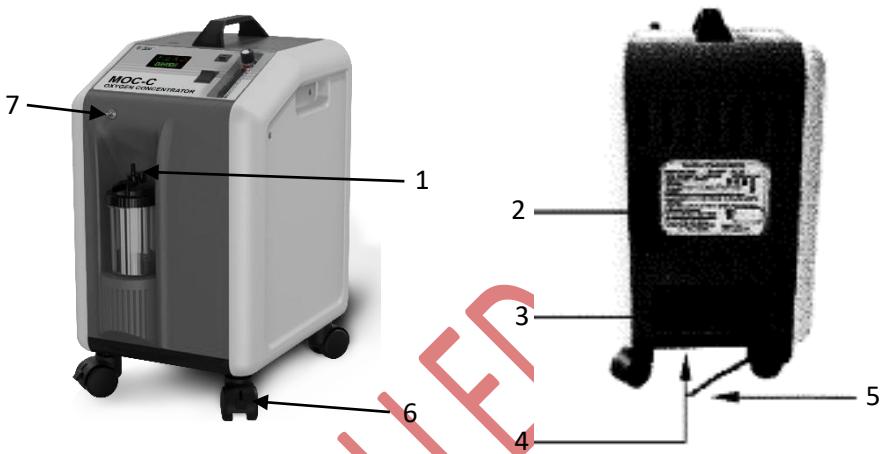
CONTROL

TECHNICAL PARAMETERS

Model	MOC-C
Flow Range	1 LPM – 10 LPM
Pressure	60 – 80 kPa
Working Voltage	220 V/50 Hz
Power	770 VA
Purity	≥ 90%
Noise	≤ 55 dB (A)
Dimension (mm)	(L)400 mm X (W)300 mm X (H)540 mm
Net Weight (Kg)	20,5 kg
Equipment Class/Type	Kelas II/Tipe BF
Conditions of Use	Temperature 5 °C – 40 °C
	humidity ≤80%
	Atmospheric Pressure 86 kPa – 106 kPa
Storage Conditions/ Transportation	Temperature -20 °C – 55 °C
	humidity ≤93%
	Atmospheric Pressure 50 kPa – 106 kPa

Compressor safety valve discharge pressure: 250kPa ±50 kPa Oxygen output temperature: : ≤46°C

FUNCTIONAL DESCRIPTION AND COMPONENT NAMES



(Figure 5)

(Figure 6)

The following Component Description refers to figure 5, figure 6

- 
 1. Oxygen outlet: Connect to humidiifer bottle or nasal oxygen tube with hose connection.
 2. Product name/serial number label: product performance, product serial number.
 3. Inlet air filter foam: To prevent dirt, dust, fibers from entering the engine.
 4. Heat sink: At the bottom of the machine, there should be no blockage when the unit is operating.
 5. Straight from the AC power cord (with plug).
 6. Castor (4) : flexible moving machine.



(Figure 7)

7. Nebulization (Optional) : Using the nebulization function: Enter the appropriate liquid into the nebulization (according to the doctor's advice) and do not exceed the maximum scale line. Before starting, open the atomization port plug, the connecting pipe is respectively connected to the host port and the inlet of the nebulization bottle. You can follow the doctor's advice for nebulization therapy. After the nebulization is complete, turn off the oxygen concentrator, and screw the cover with the nebulization port and tighten it. If you need oxygen again, please restart the machine.
8. Resettable overcurrent protector.
9. **Power button** : ON / OFF
10. **Oxygen Flow Meter (Figure 7)**
 - a. The position of the flow node on the oxygen flow meter indicates the size of the flow. (L/min).
 - b. Flow adjustment valve: on/off button on the flow meter, adjust and control the oxygen flow output.



Pay attention: Test the oxygen flow meter and make sure the knot is on the normal check mark (Max flow 10 L/min, don't let the knot be more than 10 Liter)

Oxygen flow is very important so do not increase or decrease flow, follow the flow advice required by the doctor.

The flow will decrease if the flow meter is rotated clockwise. (Eventually it will turn off the oxygen flow) , If the rotation is counterclockwise, the flow will increase.

The following parts are illustrated with reference to Figure 8

11. LED Display (Reference Figure 8)

- a. Green Power Indicator – Start Operation
- b. Green Indicator – Normal Oxygen Output
- c. Indicator Color Green – Low purity
- d. Red Color Indicator – Contact Manufacturer
- e. Display Digital :
 - Cumulative Time : Digital Display
 - Error code description
 - Displays Lo-o2-cycle fault alarm or 72% purity
 - Displays Lo-P-low pressure alarm
 - Displays Lo-Po2-cycle fault and low pressure alarm
 - Displays Hi-P-high pressure alarm
 - Displays Hi-Po2-cycle fault and high pressure alarm Note: The machine has the following self-test functions: Low purity, cycle fault or purity alarm \leq 72%, low pressure alarm,

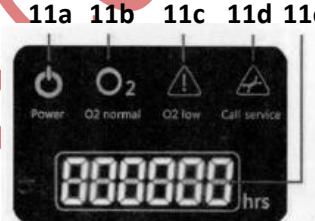


Figure 8

cycle fault and low pressure alarm, High pressure alarm, cycle fault and high pressure alarm

When working normally, the oxygen machine fault monitoring function will monitor the working state of the oxygen generator machine, When the purity

is $72\% \leq 82\%$, the yellow low oxygen indicator light is on; If the purity is 72% , the red alarm light shines with a continuous alarm sound.

When displaying Lo-o2, the machine will stop for 1 minute, please turn off the machine immediately; When the machine displays low pressure, the red light will flash with a continuous alarm sound.

Note: All alarm statuses of oxygen generators are low priority. The alarm system has been set at the factory, the user cannot change the alarm system settings.

CLEANING AND MAINTENANCE INSTRUCTIONS

1. Clean the outer casing: one to two times every month. Unplug the power supply, use a wet towel to gently clean the exterior using a small amount of detergent, then dry the towel dry.
2. Clean the humidifier bottle: You can use detergent and hot water to clean the humidifier bottle separately, or use white vinegar and water in a 1:3 ratio of fungicide mixture, 30 minutes in the humidifier bottle after separating the solution, and then dry the bottle.
3. Cleaning the air filter sponge: remove the cotton on the back of the casing, clean it with detergent and rinse with clean water. Air dry. If it's not completely dry, don't use it. This is an important step to protect the machine. Recommended twice every month.

WARRANTY

1. From the date of purchase 2 years or 15000 hours (until the expiration date) for the quality guarantee period, once the product is not operating normally not due to human factors, the factory will provide free service for users to repair or replace parts.
2. Do not accept machines that are damaged due to unauthorized modification or installation of other features

The following conditions do not get free treatment:

1. The product exceeds the warranty period;
2. Function failure due to not referring to manual requirements;
3. Malfunction, scratch or damage caused by displacement;
4. Carry out repairs, disassembly, assembly without the assistance of professionals;
5. Normal breakdown of parts and worn parts;
6. Failure and damage caused by natural disasters (eg fire, flood, earthquake, etc.).

COMPARISON TABLE OF ERROR AND REPAIR

 To avoid electric shock, do not open the case. Only authorized personnel.

Attached below the fault and repair comparison table will help you analyze the fault and repair the oxygen machine. If the proposed steps do not help, please use a backup oxygen machine, and inform the oxygen machine manufacturer. Please don't try any other fixes

Problem	Possible Causes	Solution
A. The unit is not operating. The power light is off when the power switch is "on". The alarm sounds to pulse and the Service Required light flashes	1. The power cord is not properly inserted into the wall outlet	Check the electrical connection at the wall outlet. Voltage at 230 V, check the back of the unit.
	2. There is no electricity in the wall socket	Check your home's circuit breaker and reset it if necessary. Use a different wall outlet the next time the situation occurs
	3. Active Oxygen concentrator circuit breaker (Select Models)	Press the concentrator's circuit breaker button (if equipped with a circuit breaker) located under the power switch. Use a different outlet to power on if the situation occurs again.
B. The unit operates in 1 minute; the Power light is on when the Power switch is "on".	1. Clogged filter foam	Check the air filter foam. If the foam filter is dirty, clean it according to the cleaning instructions on page 19
	2. The drain is clogged	Check the disposal area; make sure nothing is blocking the exhaust of the unit

Red Service Required light is on. The alarm sounds pulsing.	3. Catheter nasal cannula, face mask or oxygen cylinder is clogged or damaged	Remove nasal cannula, catheter, or face mask. If proper flow is restored, clean or replace if necessary. Disconnect the oxygen hose at the oxygen outlet. If proper flow is restored, check for oxygen cylinder obstruction or kinks. Replace if necessary.
C. The unit is operating the power light is on when the power switch is “on” a low frequency vibration sound is detected	The ties at the bottom of the machine are unbroken	Turn off the machine and remove the power plug then hang the side of the machine, cut the ties and turn it off
D. The Normal Oxygen light is green and the Low Oxygen light is yellow on or off.	O.C.I malfunction	Contact Manufacturer
E. The Amber Low Oxygen light is on or the amber Low oxygen light is on and an intermittent audible signal sounds.	1. Flow meter is not properly yet	Make sure the flow meter is set correctly
	2. Clogged air filter foam	Check the foam air filter. If the foam filter is dirty, clean it following the cleaning instructions on page 6.
	3. Exhaust is blocked	Check the exhaust area: make sure nothing is blocking the exhaust of the unit
F. Lampu Red Service Required menyala dan sinyal terdengar terputus-putus.	1. Flow meter is not properly yet	Make sure the flow meter is set correctly
	2. Air filter clogged	To check whether the Air filter is clogged, stuck, please clean the dirt. Check if the Air Filter is dirty, if it is

		dirty, please replace it in time according to the requirements on page 6
	3. Exhaust is blocked	Check the disposal area: make sure nothing is blocking the disposal of the unit. If the above solutions don't work, contact your Medical manufacturer.
Please contact the manufacturer or after sales if it still fails to operate.		

* If there is no specific description, please follow the instructions above.

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ELECTROMAGNETIC IMMUNITY

Guidance and manufacturer's declaration – electromagnetic immunity			
The OXYGEN CONCENTRATOR is intended for use in the electromagnetic environment specified below. Customers or users of OXYGEN CONCENTRATOR should ensure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz sampai 80 MHz	3 V	<p>$d = \frac{3.5}{[V_1]} \sqrt{P}$ Portable and mobile RF communications equipment must be used no closer to any part of the OXYGEN CONCENTRATOR including cables, other than the recommended separation distance calculated from the applicable equation for the transmitter frequency.</p> <p>Recommended separation distance</p> <p>$d = \frac{3.5}{[E_1]} \sqrt{P}$ 80 MHz to 800 MHz</p>

Conducted RF IEC 61000- 4-3	3 V/m 80 MHz sampai 2,5 GHz	3 V/m	$d = \frac{7}{[E_1]} \sqrt{P}$ <p>80 MHz to 2,5 GHz</p> <p>Where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). b</p> <p>The field strength from fixed RF transmitters, as determined by an electromagnetic site survey, must be less than the compliance level in each frequency range. B</p> <p>Interference may occur around equipment marked with the following symbol:</p> 
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NOTE-1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE-2 These guidelines may not apply in all situations.

Electromagnetism is affected by absorption and reflection from structures, objects and people.

- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcasts, and TV broadcasts cannot be

predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength at the location where the OXYGEN CONCENTRATOR is used exceeds the applicable RF compliance levels above, the OXYGEN CONCENTRATOR must be observed to verify normal operation. If abnormal performance is observed, additional measures may be required, such as reorientation or relocation of the OXYGEN CONCENTRATOR.

- b. In the frequency range 150 kHz to 80 MHz, the field strength should be less than 3 V/m.

ENVIRONMENT PROTECTION

1. Waste and residue treatment Don't throw away the Nasal Cannula, moisturizer bottles and other components, can take them to the nearest professional medical center.
2. When the machine is disposed of, please contact your local supplier or manufacturer.
3. Disposal of waste and residue must be in accordance with relevant state laws and regulations.

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